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NOVEMBER 97

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Canadian Channels Grow Mare Convoluted As Players Diversify Seeining Competitive Positions

THE INDUSTRY

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BOOK REVIEW
The Collective How-To' Book for Network Descript.

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Good News: Industry Shows Growth

to business, what he tooth and not competition, dramily shrinking

rampies, sudden controllations and shale outs, and the veritable railer coaver rule or technological innervations, successor rule flops. But shore's at least own sides to every povershal core. Take the lattle of the Internet site the manufacture over the last few years. Yes

That the shall of the Internet into the manufacture over the late years. Yes, substances over the late years. Yes, sharlows compares are within products directly to states over the "Net And yes, some consumes or plassing orders descripsists on the sections of industria, such coming models was had here the workload of a physical decision. But as "hearing greet in pagazing, models was devicted in This year, Evitis Beneath Cerp. way Considers with they 2 to artifice models.

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Hence sent had you another rision to provide an compane. Compentions bought With service and convoking services. And while many bencessor or will shrugking, to secondly online money on the With conveer dring 4th, a great many people have clear very well setting up clears for the laterase, convicie burdens and undersore.

Burden is that

Condum' demand for information technology products and services green 12.1 per coret. in 1996, core 1995, according to determinate Data Corp. (Canada: Lid. And prohimmary forecosts seggest IT beyon' demand with receives used in 11.2 per cont this year. It's good sizes," said Paul.

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(Histon lear The Klimmone The", Jugo 20, by Associate Short off Errary). After this study, a special finance on the Canadian congruing shared by Paul Limin, (Hence see "Model Shares") page 221, estimates correlate on the channels in playon look for one exponenties and between worse to deliver product to a metal. Komenly any griting product to market and residents, haven the reserves to the description, haven the reserves it made produced by any extra product or mark process to be deliverable. The sufficient of the process in the control for surface association, haven the reserves to mark process to be deliverable.

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(NR) for Messenger' backet Dayson has anneased a use against and other convact influences in the regio

position of Jess in Microsoft's Internet insperious sessed Microsoft, and femorial Design a subconference banded days tion president Also Bursts charged that, over Ket (IDK), a responsibility he send as home by

Method Improport ... that Sunhas method in

Manyorft also "descriptionly altered key class Marries (so that) development will believe they they are designed partition halfest will man each on Microsoft Explorer," smorted the Invalve Say unerymed these descriptories dur-

Sun, be said, as sixo sanking several system privates Murauli from were use, according to Bernix, But Suc's everytime

Specifically, Microsoft Sided to included non hav senatures -- INT these Nation

Windows 98 will offer Internet at TV speeds (NS) - Microsoft Corp executives said WavePhore's WaveTop technology is put the

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forward us delivered buildwidth to home ager of Windows product group "What users will see with this technology is lawmer con

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Digital camera products continue to multiply, now boasting higher resolutions tawers proliferance of new models of divinal on display (Passonic declined to show its At this wage, most of the effection has

tion careerss (400 by 640 modeimage resolution of up to 1,280 by 960 cools, maker

is milion or more

Color/True in-current processing technology

Gaming platforms are hot Conguest game! Video game! It's two, two

ment software the video console market desces, Apple Mex. Apple III Commodata

usts different plotform tracs - the high ly being found in the same households. On the personal computer side, 1997 has seen a operating system for high performance PC

1997's Windows PCs, with Pensium MNO

flows usen to depoth council the PhotoPC coencie of software, a PhotoPC 600 AC

the PhotoPC 600 common or also available The numer. for destinate or value projector, or for

releases at the Condon/SCIB '97 show The rPhoto 1289, priord at \$1,199, et a very ricely

and 3D graphics receivation has combined

On the voice raths vals of the curkst. Casadges market. The Nisterale 64 system has whit about half a million consoles up the banded thousand units, and the Sega Seturn.

dwits! carron models at Comden, the DSCwith built-in 4MS flesh memory, and highoutset. The new Sony Digital Marica camera makes picture series even easier, by allowing disk, which can then be transferred to a Mac exless, and pre-programmed settings for differnet lishage conditions, so help cover the history analytic rhotes. There are also accord

With the new, higher resolution and highly festured district cursons costing in the \$1,000 to \$1,300 coner, there is likely to con-5650. However, the new hiress comens are in market share in 1998

m-comerc photo speace processing options

end-users overlap a lot. Many families flad MMX PC Many PC authors publishes we benchmark to judge the performance of their hant compate tides spared Better then Nationals 64" is the proudest, usually exig-

Canadian groups prepare for research infrastructure

(NB) - The Carolic Foundation for Insposition (CFI), a precausers-backed correction, and test properl to seek ways of developing a new information infinitesture to support restarch Gooded by a counting committee made up mostly of sendomes, the group will bold five region of workshops on the most fine wearth, to absorp research issues, then not country a set of recproperties to CFI and CANARIE. The focus will be an advanced networking infrastructure



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tion, on Meetrosi.

1997 SCID show

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Canadian university owns 'software engineering'

(NR) — Proof with appointing from professional engineering scoreties as in use of the phrase "software conjuncting" is a cosmic description. Memorinal University of Newfoodland has taken out a Canadian trademark on the phrase.

Memorial was greated the undersurk in Jahy, assembly on other Pater Monta.

and 10t and the university does not retend to be beeny-handed in enforcing th trademark, rights, but "no essence, Memorial University own the plazar."

Obtaining the Indecember was a functional

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grown by its computer science department

er for the Countes Council of Professional Engeneen, and "the use of the torn, 'engneering' is strictly within the foothers of the engineered positional engineering engineertions." The associations are concerned that grinciples of professional engineering ringle ITC rulling may lead to NEC Car.

(Nik) — Stang by the U.S. International Tinde Commission's decision that it is dumping a spercomputer, NEC Corp. is disabling of initing up its own supercomputer center to offer services to casteriors in the U.S. free outside the country's bestern

2 Canda appears to be high on the last of possible sizes.

In late September, the TTC radiod by a three to-coching sout that NBC and two other Japanouse supercomputer senders—
Figuou Lad and Henchi Coxp. — have been selfing supercomputers in the US resident in

day on NL, and artifact different sensors on other Juponess superior superior superior other. The subject sensors of the Juponess superior superior

Six. Adams seed, NEC and HNSE int sovering their options and are looking senously at anting up "some kind of little contre somewhere outside the United States." Such Canadian News

not be applied appropriately to courses given outside a school of segmenting, he said. Memos, however, theorybod due (tigsness) position as "na innecessary untrastion into survivoring governance" "He said cerversities norms Causdo are beeking Memorial's

It is not clear whether the case will actually go to count or be settled otherwise. "We
could be handed to count," Meeters and "Texnot rare this we are headed to count."

The dispute ower the use of "software
coponering" to describe software design and
programming, word; it a long-rammag over.

ITC ruling may lead to NEC Canadian supercomputer centre (NR) — Sung by the U.S. International —a court would be able to oil capacit

NIC supercongulate to castemen to the U.S. and ellewhere. No discussions have been grade on whether to open such a center or where it would be. Adams said. However, he agreed that Canada is high on the last of

US market
Tennas with bose base for branches of
more machine tool trackets you companies
operating in the county and thus an obvious
the Havever, Moderate implie also be a contool as NIC already has a small supercomparts business from, forcured on supporting
and insistencing in NIC supercomputer that
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SAP Canada active, under new president Thurs's relative cooking at SAF Corects Inc.

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by David Roses

Now the Apple has could us cheere," Togerreneal" by segment, the cases of the Congress, many manifest expect more could be a server out of the colors of t

Fallout — Apple Style

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Apple posts loss

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vior possitient of international pales, and Jerses McClerdy, strator wos president of workheele operations, have left Apple to "persue offer eterator."



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drough which Occile will embed Tibor's TIR/Senderman publishbalbarder resource ting software rate Gracle's products message once to embole users, rather than change, widnest brying to sele for it or know-Rharagiwas, product murketing manager for Theo, explained the technology can be used

In a streemers, Machell Krumer, analyst at the Patrata Scybold enterprise computing called because event pro-

now be able to transant doktors, rather than forcing the exception

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Middle School in Los Angeles, where NCs are you learning?" year few Loop, or readent

"They as a many proportionary for an inpres," Sandra Hermára, a 12-year-ald sar sters at the school, sold visitum media. "I

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Muddy Waters

anodian channels grow more convoluted as players diversity, seeking competitive positions.

by Paul Weatherp

Philosopher Chiefes Taylor writes that in the modern age in Canada, crames can with use by claim to enable he and compensing electrics.

The same descriptor might be applied to the computer moletric where the various channels of fine-thiston and result of rendamtry, where the various channels of fine-thiston and result of rendam-

try, when the vignor creation of monthstatic and seems of persons or stricting to "hereign" says Dony Ober, manager for Canadian channels research for Thronto-based market research firm interestional Data Chap, Chesalo Lid.

In other words, there are PC manufactures utilizing disordy to end-scene or others to build-bloomly represent with the modifier and

(oxidation) (bases), decrebons belowing more specialized and "value-sided," and application-created scallers larning to more lacrobic opportunities in system integration.

"Their nerves are frayed. It is like someone

going through an unhappy time in their marriage."

— After Down?

All this lift of charge and advances and money is by of

lyst with Torosto-based forms Research Corp. "There serves are froyed. It is able vanceous group through an unbugge time in their searrange."

Build-to-order programs on the safety appear to revoke the resellent, while the district verling searcegs shalled out by Dell Computer and other resolvin where their role:

by to be adventedly affected over the langeren. Date bedden-order is family couldlibed, adds Dates, "that is become course to begon resident."

Ditters his Medical O'Ned, sensor sizeproviders at IDC Crosch, suggest that the badden-order methic, developed by major Medical course methic, developed by major Medical course and the U.S. is dependent again. Log-medical being control of the grecory. build-se-order, with its promise of exx-day deliva system to an end-user, can actually work as the Cantilear with an acutarrad population and lack of available occurs or furthers, with Darra Depth development.

Our demand tech Dun Canada for.

In terms of the consume real small bounces
and over market, the vate of the channels are
recreasedly unlambly and dysfunctional,
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Minimizing Out-hood Service Dimensions for
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(NC tourisms are createding various anties
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We send that the contract of t

time to lease. They went through some pretty rough putches (all family.

NC senders hive undertaken proceedings in coopout to pressures from Dell, which can offsed to describ sell to PCs at 15 per our below what in component charge by avoiding distribution and modelling alternation, was Depose.

registers, charge by avoiding distribution and a Distribution.

Manufactures, he olds, use all over the may se the direct-selling model.

ISM, which has rold almost all its prof-

uch on a firred basis at some point or other "in minimizingly among sides more to channel partners". In the minimize, while Companhas gover shown any inflication of going this way in Cassida, NEC and Apple have row ally amounted their minimize to go direct. But as the hitter's case, according to the

arroanced their measures to go direct
But as the letter's case, according to the
Evens quelying at meet from "Apple dealers
getting new product lanes because they are
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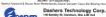








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research on characte demonstrates that and/rect the information technology in this country. "YARs will apper dauggest, and enotice" says Objet at IDC County, Histories,

Not surprisently be notes, "a lot of applica-

time VARs are honoresine interesticite VARs." Of set is confident that many VARs are "ministe" enough to Scilow the properties for survival, which appelves keeping up with the

on "turning upstraum" in recess of providing valued-edited services. retance, of derritation takens on confinention. "Many spellers will

The arency model, where the reseller is does not take ownership of a vendor's prodif it the firsters proving chancel as the regiver

locked over and clewed their doors or Caracle. were wondern in the Canadian puriet, the

Nevertheless, many commentators including Brace Swart, pretdistributors currying a smaller line of produce. The Guelpis, One-based divinibator, EME Dain Swappy Ltd., with its focus on Units and rount of responsed 6th over costs of the assesses in 1996, a cover from poly (1) per



Software or often coted as the Achillics heed for dissolutions, with over the leasurer from suppliers by consumors. "The 'Net is hamness," saws Strain. But green at IDC Consilis absently notation. write off the role of distribution, and resellers for that matter, sucton who will take on a greater role. "There are too pages of even in It seems these days that the only certain throug about the chan-

Paul Worders to a Tomoto based freelancer who specialized in high





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You much thank somebody's get to have the 'Not has to be may the top of the fast of like credit card numbers on absorbed reter-

In fact, companies bace been working to Firewalls between corporate LANs and the leternet at lease at one exercise IDM case of Garway fervall for several years to project to reserve the periods of Between link-laws

this Microsoft has extended the postponnearly renewal in wandwar called the nearly PAR CANADIAN COMPUTER WHICH I SALED BY Management 1997 Ann Communication

to-cost turneling protocol, or PPTP Coco-

I TTP a account lask to entublished between the source to the extent that other Inscreen traffic alone with operator and offer competent data encreation, but other solutions are beginn he of Redwood Ore Cold as balance to have its DNSsafe and apporture prairie adjusta warn's required to a Wish was and substrated the year's DNS address with another -- so the says it will be providing the Interpet Sediwice Consensary (INC) with a feet borrow to use

> Meanwhile, PPTP seems to be garang lean a heart Mife research of concession and mond DEPTH or exhibite on their Wheeless Ed or LAN yea a regular moderne a cable modern OF THE PERSON COMMON TOP

Another commons that as annersonable sunger VPNs is 3Com In October, the Santa Class Cold board comments a road rase for their delivery. Assens the software Morean VIII Versal Southern sech-scoture and reswork bardware products

corporates's LAN and as VPNs without

muns as would be found in a component fire-

Germanismo, Md. appropried the Multiis the first product that offers security across project "empley a compension, for the first accust puddate eyess of preferations CWO.

V.One explains that exceptor VPN seasmay usual representations opposite on usually lowers nome for example The company size in Americas they're best sured for The maleemble a secure end-to-end VPN scrom the

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videophenes were robed out by AT&T nearly 40 years ago, usuary large and visial comparises have traid to make a video equivalent to the vives telephone. In the list these on lone years, machini acceptance this govern skeep with the capability of the products, we that it is now a lose blatter of this readoutry.

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The Business View For Videoconferencing

The Business View For Videoconferencing
Most of the reverse opportunity for renders withe independencing
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The second morter for videoconferencing is the concern and SONO (Small Difficultions Office) morter, in this market, sales and

to be of the extensional versus, where a contenter want to put, a vision cruzes and and a current can all P. Video Conferent bother whose conferences; more now POTE PHILE OLD Subpleme Services have formed at all reliable and term as REMO or other receives conversed and the conference conference

The Market That Dares Not Speak Its Name

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Videoconferencing: A Guide To Some Of The Players And Products

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A Gathering Of

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allitiach by raclading malcophone support in its new release of laternet Explorer 4.0

Person Fel is the undequand leader as the videocontension; morlear. The conquery's 1999 revenue, were arread USSNO million, and included a decoral profit margin. Proceedings Commission receiveinclude blue elley computers viel in Advan Educations, one of the leading players as the professional industration and most mellineds in Comula, and IBM Comità. According to Pictor Fel expresentations. IBM Commission and Illiant Included by the Commission of the IBM commission and Illiant Included and Illiant Included and Illiant Included and Illiant Included Included and Illiant Included Included

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Standards, And Non-Standards

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will anyone with a widen capable computer be confident of being able to call wirtually any business, school, gurernment offlies or home, and uspect to see the lace of the person they

office, or home, and uspect to see the face of the person the we calling prop up on their computur screen."

Bostok Marketing Over Control of Alto State Control of Control of

Digital Vision CompeterTyen/PCI

DRT Canada assessment the laurate of an Wiss-Task Mylay-Player system in August 1897, distrining the other are "Rodukhle and automaty way to use state of the art Mylay-Player and control and art way say for consumers to enterthis world of their way wido commences on own the Interrupt. The Wis-Task prodvoic consisted or in Sight commen cupture board, microphone connections and software, and so designed for Windows SP Chi, far a statel price in roduct SP Chi.

Digital Vision, a leng-time lender in PC halest of this is very recoller engineered consumer independent and plantal which helphage. Or less extent which may be a length to the China vision to the concentrating published from the color make, and, that, and white body communications to Welchard and Marchaniah platforms in can be used as the literature or and TEMP individual for min time personal to pursue as group conformacy broadcests and these lengths of the second properties of the color of the col

On Sept. 6. Tourhole economical the Team 1900ST is \$23 800 (1908th) Penduser Various mechanic velocit includes on integrated adequate renormy system Tourhole which is also a major wander of digital commiss saum

















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connected to the PC's recent card to input vector, and a motion or interesting card to send and receive the

interesting could to seed and income the study, value and may cheer (such as whate lowering, or collaborators applicationed data science. See process, devices of contract could be very triady for counsely, if using respvent and making and lavering in their and make and very quality for poor, and making and lavering is often and make and very quality poor, and making and lavering is often and make and very quality poor, and making and lavering is often and make and only poor, and making and lavering is often and in poor, and making and lavering is quality systems of the contraction of quality systems in exceptions and redulings. Our asserted, valueconformating professions can be made before in mem of opposit, and conformating professions can be made before in mem of opposit, and conformating professions can be made before in mem of opposit, and the conformating professions can be made before in mem of opposit, and the conformating professions can be made before in mem of opposit, and the conformating professions can be easily before in mem of opposit, and the conformation of the conformat

quest, invitations interophenos and redailings. On a auxonole, videoconformating parformance can be insule better interior of speed, and if a possible to support multipoint videoconferences strongly the use of a server. However, they certain a videol new level of complexity and cont, and is generally associating beyond either the average and over rerestant contley's abilities.

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her volcocoeleracing products are recompatible with their intenofferings

Advice To VARs And Resellers

develop the specific experient moded for a rapidly changing, and an riskally demandant amends. Then them a bring in-broam expects in videoconferencing. Petermid co-control tops on to below a the technology of words, which means demo under up and ranging at all tapes. In the case of the branch model, a high degree of competitions with non-

audio and video quality is poor, and making and keeping a contraction between two users is very illy."

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new province which includes the claim again coming, acceptance, all software, but claim (1 legans in capture cert) (+138 73 stack) Correl Correl controlled a capable videocontinuação guyase in 1996 which which wells of the Correl from dutal commer. Capablessor, and Gorellideo networks of the Correl from dutal commer. Capablessor, and Gorellideo networks to the Correl from dutal commer. Capablessor, and Gorellideo networks to the Correlation of the Correlati

> or inferioralismoons, se part of to best outin offerocalismoons, se part of to best outin of the VMC senture as a streatables comporational. All the recent Microsinel SCIS show, land conferend Gover's owaging interest in redcess the name Sensor which it gives also which finous to lower the seal annual seat of operating one to lower the seal annual seat of operating

of the concerner market, insultation should be does by the vendor at the vendor's service facility, by a qualified technician

In one sease, the continuing relatively buth level of complexity of high performance videoconferences to sood for empalment resofters and VARs, but in costs and diffic altally, ranking for much preser opportunities

In order to become a universal alternative to marginated area all computer execution assudone, but vendors such as Sugs and PetierFel still promote preparacy videoconference software, which oversity servrately from browsers such as Microsoft Interpet Explorer and Netscare Necessary Video quality also has to anyone to the level

a networked computing 'seat' by 30 to 40 per When 3Com bought up U.S. Robosco, r. elso.

Roboties enreunced 72 sporodes (SOG)es pagine pagabley as well as volocostronostq. for photo ranging from \$250 to \$550. towards offering complete indisconding company

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and WAN becidenes to brench offices." The

nectices, PCs and servers. And, finally, videoconferencias renducts that are true videophones: pheap, compact, and ther-proof, file the PengeTel

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New Dawn For Multimedia And Videoconferencing This is truly one of the first and/over where

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If's incornagion of MMX technology has the multimode market And there will be sigsidesconferencess and other CPU-serve

Success and Competition

AMD has retroduced the RG - a 233MHz solver. The K6 has been tested in similar

budget is an issue, the KS may be a better

New Processor Markets When should a consumer bey? First was many

These rectain Mean, INST and DA Comp. a bet more, offer a K6 system. This will give tion of the IBM machine which was ma at

55.5% colors due to its 2MR front on the

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compad with either 266Mills or 300MHs Perform Environment and 64MR of RAM, We-

DVD drawn and 5D specimentors, while others Many contents arrived late the month as

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CCW's Labs for offering good performance at very AXXL systemati with an ATX form factor busing the latest with a healthy down of 64MB of high-speed SDRAM. Speaking of high counts, this A-Open system was configured with the new melade a 6-1GB Quartum hard drive with Ultim DMA support, and on LS, (20) floors give. Maltered to delivered with the belo of a NOX CD ROM, an Ager AW15the sound cord and a pair of Waveforce 160W socilers. Also included in the arctone are in Arre M N201 services card, as Ager 5002ps modern and a progranusable keyboard capable of adjusting volume, controlling CD-ROM activity and calling up the Wesdows 95 exhadator at the press of a button. Although the system was one of several which encountorrel problems with the darabase persons of our banchrosek state, #.

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Support For Reselvers'

The new PC 300XL from IBM reakes use of the 256MHz Personn. Il reconster on a 440FX reciberhood, and comes standard with 32MB of EDO RAM. The model sent to us for moding, however, FLCD

was excessed with an additional 61NGS, bringing the total up to 96MB. The video card in this 2MB of DRAM onboard. This mean: which was used for all other mechanis IBM's over 4.2GB basi

danc as used for storage as this system. This danc has some

ammentive benchmark accepts, and well no only provide intellentor-The system also recludes a 16% CD-ROM, a 16/1908ase-T netnoted that it ships with Windows NT Workstation 6.0. An overall as other scores andreate satisfactory performance

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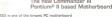
Editor's Notes:

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SDRAM is new Deceased Vines VSSS video road with dMR of SCRAM enhand for blacker graphics, a Sound Blaster AWE64 count card, a Western Descript 4 3 UDMA hard drive and a Todyba-DVD-ROM drive. For out-of-the-best communications, there's a USB Sportster 50Kben for modern. Also prolated in this swimm are a near of recat recording 329W speciatry for the absolute maxmally well on our benchmarks, coming in second place overall in the 300 MHz-class. They eviden it lended with Grade-A commo-

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Making with the Excess More enador pofamano a a molt

as A Circs AXEF ATX perfectored with Intel® 446FX charact and DVD-dow from Series Bourns A Creative Labs Modern Blever

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One of the facest machines in this mandes, this machine is

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board with the 450FX chapits and 64565 of EDO RAM. The

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valor not only smale storage, but Millermore II video card with 4MB from from purses to spread heets its As far as mailtimade, is concerned, you get replace but the latest

The 4.3GB Quartum Freshall pro-

modes in also included in the system, as are a pair of 200W WaveMoraer venetion and a Microsoft Natural keyboard portion of the bonchmarks, as other scoops suggest at his most

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marking " and Mike Brackers E-mail For Changel (for surficts and Editors' Notes offers good performance and a race

SCOMPL processor on a 440LX motherheard, the vesion feature, 64MB of harb-speed SDRAM

s Occurre Frahali 43GB knol dove, a 24X CD-ROM from Persone, a USR 50000 vessiles mades, and a Syuana 160W speakers and subworfer teamed up with Creative Labs' Sound Blader AWID4 to deliver want want This marking is ened. This was yet another machine which managed to make it all

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4 3GB DismondMax with Ultra-DMA support, with an excesse also part of this system, operating at a maximum speed of 24X. Roundton out the rystem is a U.S. Robotics Sportner SGKbes.

verceffex modern with speakarphone and a guar of Yamisha MT multanedis speakers. In the way of software, you get Corel's WordPerface Surse 7.0 OEM, for 8.0 ency of a syntable OEMs, or

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Prior/Performance The system from STD offices the best performance for the sensey. Proof at \$3,799, at has great components, had no problems for

Steve Helinda, The Bengham-Naku and Jaco Bland are CCW's Lob Test Editors. The excise reached at (415) 235-8454. 48 CANADIAN COMPUTER WHOLESALER November 1997 Into Seen County Co.

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Note Opportunities In Document Management

by Don McLea

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"Value-added resollers sell, definer, result and are the front line. support to the end cheer," explained Laure Klisson, channel menager tion to the services they provide " VARs who are in the husbers of sell and support Livelink. Open Text also offers a sensitor certification unggers. "The program is still fright young and base't had a chance to

maters." Klasson said Later Development Com with its trol took and security features let the "owner" of certain Notes docu-Manager Law Canada Lat "Notes and Demonstrate very doc-

torner size and say, 'what you've been became for all slows we can Leffling and Novell's GroupWise 5.2 includes a new document meaout of the document resourcest and GeongWee systems. The prod-

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Sean Carriellers done With considere for



Show were flubbling their way to the stands of Corp to get a glance or DVD Video. This year DVD was areas in the modernt as world's first portable DVD player, the

Liqued Crystell display

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Sony, Phillips, Sharp develop large flat-panel display

Platips Electroners Sharp Corp and Sons Corn say they have sparts developed a

Matsushita wows Japan electronics show with portable DVD tion, widescreen LCD (legan) crystal display) with a DVD Video player. The gut also The entire and occupies hade more area

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Festures of PMC melude on active

Asia plans commercial Internet exchange Awar, commones will find it ensur and more cost-effective to conduct

business over the between later this year with the first neutral high-

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The ole was baseled as a pour with a television program on the The wall is divided into two sames, the readin zone and the shep-

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Dusting Off The Crystal Ball



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More New Processors.

two back-comment models for boosts reco

recent release of Intel's 440LX shap-set faulheat future support. Among correct officeres.

Expect to see as many new CPU release es or 1992 or to 1997 On other words have of for motors charges to convert even furni-

New Perioberate

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Microsoft charms and hanson CEO' Steen John

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Platform for Publishing" push suppossible and the television as two types of

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rate seven, almost half the new machines sold

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devices seem to be following a Moore's Line Brand Power Tips:

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Computer Paper and a farmer computer receiver. He can be reached at

The Definitive 'How-To' Book For Network Design?

by Stephen Borok



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The best game need cowards LAN administrators, system administrators, countries, residence, and my offers who design Novell activeds. There is no need technique in designing relevable, but be best give set mode all the recoverage guideless and rates for critical properties much more efficient than others. Efficiency mode in a solide activent, which is onely noticeable and with the minimum amount of miffle.

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appearance in enterties in a user with Nervice services, America Distances Services, or NOSE, maintains the "revice" distabless appreciaing mens, groups, and other network objects. In Part 1 "The NOSE Time United Represent rise Network Agrommentum." the droging guidelines, grounder who on making the user workful the services.

Part II details beer as: Details ADS has Parchesis and Replicatwhen Pervisit Scalability and Fant Tolorance, The NDS, wheth force the distance hidding network objects incident distallment no ported against extractly fashers and to majorize advantage reference included and for the design by NDS atto sections and their copying the



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(basiny services)
 The naming guidelines are universal principles and are useful in
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U.S. Robotics' X2 moderns legy African pyc-competers, com

Fujitsu launches tiny 1.6GB hard drive Frithy Common Products of Assertion in Shirmon in M2726 2.5-inch. M2742 is expected to appeal to notehook PC owners looking to pilor in the world in record quarters. According to Dung May, note-pres-

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